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APPLICATION NO.	FI:	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/655,889	09/04/2003		Richard A. Schmidt	2848-28-PUS-1-1	7191
22442	7590	03/07/2006	•	EXAMINER	
SHERIDA		PC PC	AFREMOVA, VERA		
1560 BROADWAY SUITE 1200				ART UNIT	PAPER NUMBER
DENVER, CO 80202				1651	

DATE MAILED: 03/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/655,889	SCHMIDT, RICHARD A.				
Office Action Summary	Examiner	Art Unit				
	Vera Afremova	1651				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
Responsive to communication(s) filed on <u>09 Ja</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro					
Disposition of Claims						
4) ☐ Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 19 and 1111 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction	epted or b) objected to by the Edrawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6/28/04; 01/09/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	(PTO-413) tte atent Application (PTO-152)				

DETAILED ACTION

Claims 1-19 are pending and under examination.

Claim Rejections - 35 USC § 112

Indefinite

Claims 1-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1 and 10 are unclear about what disorder or disease is treated as claimed. Is cancer treated? Is urological-neurological disorder treated? Prostate cancer is not a neurological disorder. Prostate cancer occurs when cells of the prostate mutate and begin to multiply out of control. The IDS reference by Crawford teaches that prostate cancer does not cause any symptoms until later in the disease when cure is less likely (see IDS reference by E. D. Crawford, page 3 of 6).

In claims 1 and 10 the antecedent basis for the limitation "its treatment" is unclear.

With respect to claims 2-4 and 11-13 it is noted that the claimed symptoms are not necessarily caused by cancer. With respect to claim 14 it is noted that "radiation treatment" is unlikely to cause the claimed "urological-neurological symptoms" of prostate cancer.

Thus, as a whole, the claimed invention is indefinite, uncertain and incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01.

Enablement

Claims 1-19 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The factors to be considered in determining whether undue experimentation is required are summarized in *In re Wands*, 858 F.2d 731, 737, 8 USPQd 1400, 1404 (Fed. Cir. 1988) (a) the breadth of the claims; (b) the nature of the invention; (c) the state of the prior art; (d) the level of one of ordinary skill; (e) the level of predictability in the art; (f) the amount of direction provided by the inventor; (g) the existence of working examples; and (h) the quantity of experimentation needed to make or use the invention based on the content of the disclosure. While all of these factors are considered, a sufficient number are discussed below so as to create a *prima facie* case.

The nature of the invention relates to method for treating neuronally-mediated urologic disorders with botulinum toxin (specification page 1, lines 13-15).

The breadth of the claims is directed either to prostate cancer treatment or to administration of botulinum toxin to a patient with prostate cancer for alleviating symptoms of prostate cancer. Some claims are further drawn to administration of various types of botulinum toxin.

As related to prostate cancer treatment it is known that prostate cancer is treated with surgery, radiation and/or hormone therapy (IDS reference by E. D. Crawford, page 4 of 6). The claimed therapeutic agent botulinum toxin acts as blocker of acetylcholine release from nerve endings and accordingly it blocks neural transmission when injected. (IDS reference by Leippold

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et al. [European Urology. 2003, 44:165-174] at page 166, col. 1, par. 3). Thus, treatment or cure of prostate cancer with botulinum toxin is at the very least unpredictable because prostate cancer is not a neurological disorder. Further, the instant specification does not provide examples of treating prostate cancer or curing prostate cancer as disclosed. Therefore, neither specification nor the prior art can be said to support the enablement of the claims over their breath. Undue experimentation would be required to practice the invention as claimed due to the amount of experimentation necessary because of the limited amount of guidance and limited number of working examples in the specification, the nature of the invention, the state of the art, breadth of the claims and the unpredictability of the art.

As related to the scope of claims drawn to administration of botulinum toxin to a patient with prostate cancer for alleviating symptoms of prostate cancer, the specification of the instant CIP application provides 3 new prophetic examples. In the examples 7-9 (pages 18-19) patients diagnosed with prostate cancer receive injections of botulinum toxin A. However, the actual results of botulinum administration to the patients with prostate cancer are not disclosed. Thus, one of ordinary skill in the art would not have a reasonable expectation of success in using the claimed invention because botulinum toxin primary affects neurological dysfunction but not prostate cancer. In the specification there is a single disclosure about one 65 year old patient with "disabling perineal pain following radiation treatment for prostatic cancer" who "experienced dramatic relief of testical pain" after botulinum injection. However, due to the age of patient, complexity of his condition and treatments, the expectation that the "pelvic pain" would be relieved for any and all prostate cancer patients as claimed would be unreasonable. The state of art teaches that "large controlled trials are absolutely required to establish the role of botulinum-

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A toxin injections in the fields of urology and neurourology on evidence based medicine", for example: see last paragraph of abstract of the reference by Leippold et al. (IDS reference; European Urology. 2003, 44:165-174). Thus, the applicant's singular, narrow working embodiment cannot be said to support the enablement of the claims over their breath. Thus, one of ordinary skill in the art would not have a reasonable expectation of success in using the claimed invention.

Furthermore, with respect to the claims 6-8, 16 and 17 drawn to the use of various types of botulinum toxin, the state of the art clearly teaches that botulinum neurotoxins should not be considered as generic equivalents and different types of botulinum toxin cleave different parts of the protein complex necessary for docketing acetylcholine. For example: see page 166, col. 1, last paragraph and see page 167, col. 1, par. 1 in the reference by Leippold et al. (European Urology. 2003, 44:165-174). The effects and doses of various types of botulinum toxin in the method comprising administration of botulinum toxin to a patient with prostate cancer for alleviating symptoms of prostate cancer are not disclosed in the specification. Thus, one cannot correlate generic therapeutic amounts of botulinum toxin A (specification page 11, lines 16-21) to therapeutic amounts of botulinum toxin B, C, D, E, F and G as claimed. Therefore, neither specification nor the state of the art can be said to support the enablement of the claims over their breath.

Undue experimentation would be required to practice the invention as claimed due to the amount of experimentation necessary because of the limited amount of guidance and limited number of working examples in the specification, the nature of the invention, the state of the art, breadth of the claims and the unpredictability of the art.

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Therefore, the claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vera Afremova whose telephone number is (571) 272-0914. The examiner can normally be reached from Monday to Friday from 9.30 am to 6.00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached at (571) 272-0926.

The fax phone number for the TC 1600 where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology center 1600, telephone number is (571) 272-1600.

Vera Afremova

AU 1651

March 2, 2006

VERA AFREMOVA

V. Hnimor

PRIMARY EXAMINER